

Providing GPS Coordinates to Water Resources

Water Resources records location details of bores and river pumps in the Northern Territory. Having accurate information assists with the allocation, use, management and administration of our water resources.

If you are supplying location information to this Department using a hand-held GPS receiver, please use the following navigation settings.

1. Position Format

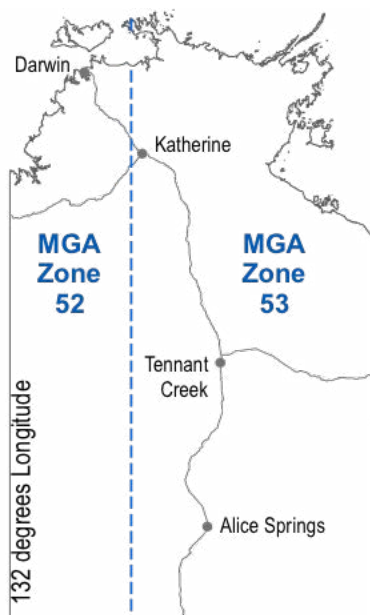
This may also be called the Coordinate System.

Select UTM / UPS. Set the Units to metres.

These coordinates are described as Eastings and Northings.

This UTM map projection describes areas using MGA Zones (Map Grid of Australia).

Two zones cover the Northern Territory.



Zone 52 is WEST of 132° longitude.
Zone 53 is EAST of 132° longitude.

2. Map Datum

From the listing of datums select GDA94 (Geodetic Datum Australia 1994)

If this datum is unavailable, select WGS84 (World Geodetic System 1984)

Note: WGS84 is the default datum when you purchase a GPS. The difference between these datums is approximately 1 metre on the ground. Your GPS will be accurate to +/-10m.

3. Recording coordinates

When you record a coordinate location also note the MGA Zone. The zone reference is displayed as 52K or 53L on the GPS, like this;

Location	53 L	0205020	Easting (6 figures)
	UTM	8398923	Northing (7 figures)

Do not record the zone letter or the leading 0 for the Easting.

For example: Coordinates for DLRM office locations would be recorded as;

Zone	Office	Easting	Northing
52	Palmerston	715567	8619567
53	Katherine	205020	8398923
53	Alice Springs	385839	7371120

A single coordinate location is recorded as;

715567, 8619567

The Easting is noted before the Northing.

4. More information about GPS

For more information about GPS please refer to the Geoscience Australia website www.ga.gov.au/scientific-topics/positioning-navigation/geodesy